

FIG.1

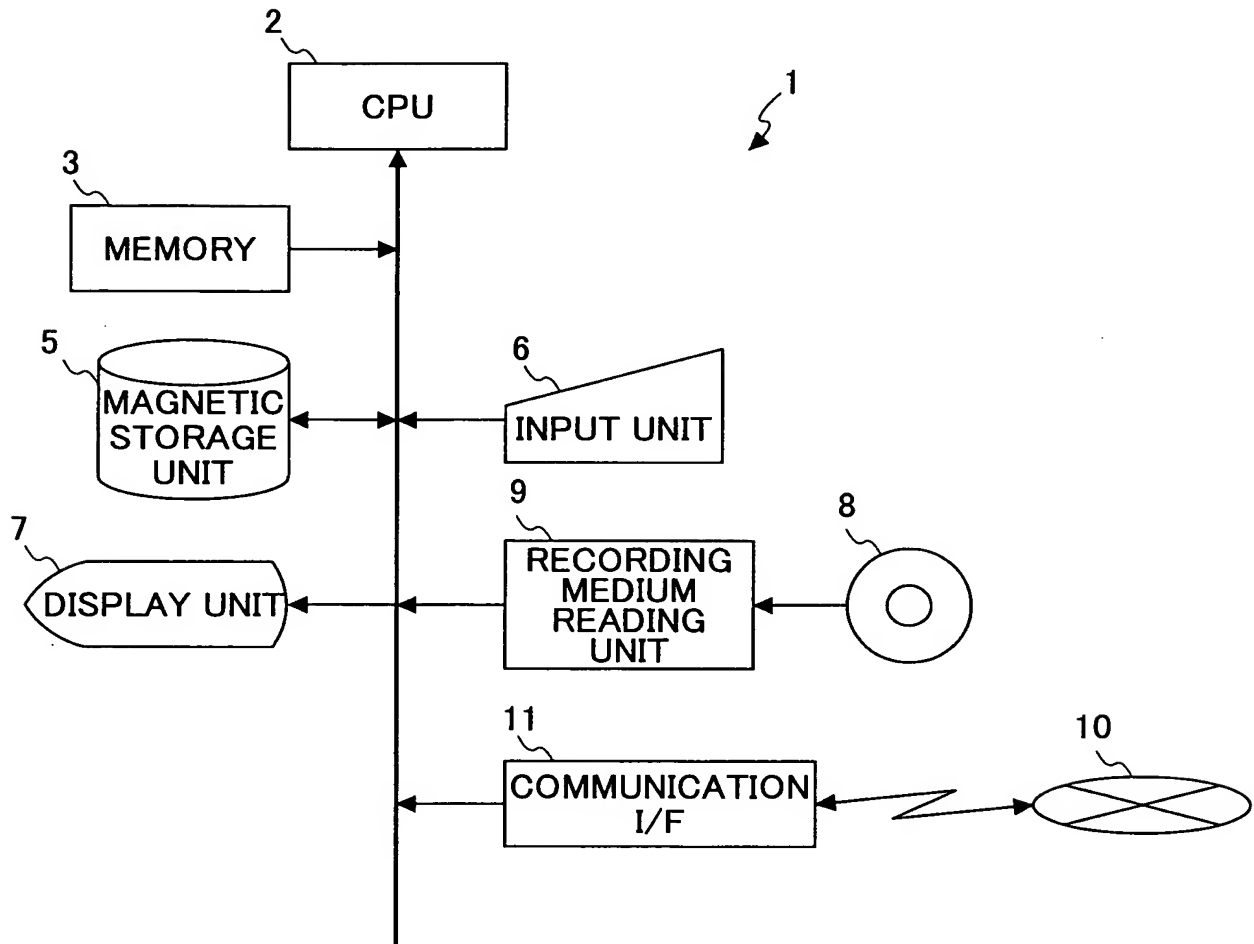


FIG.2

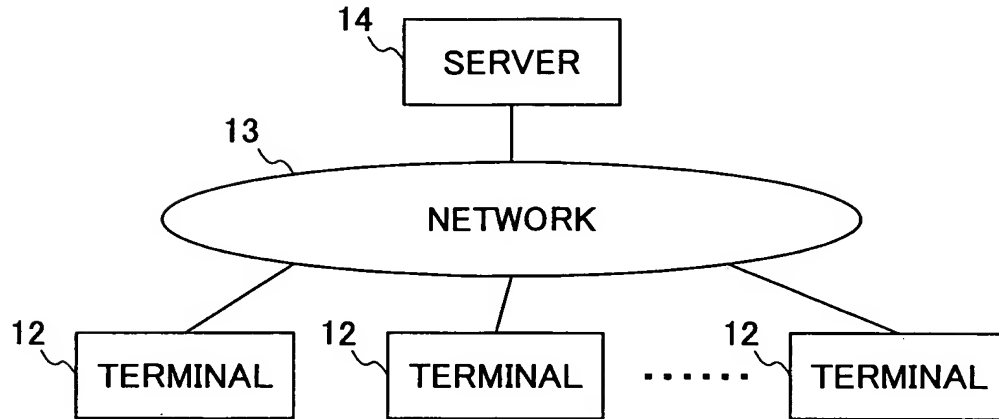


FIG.3

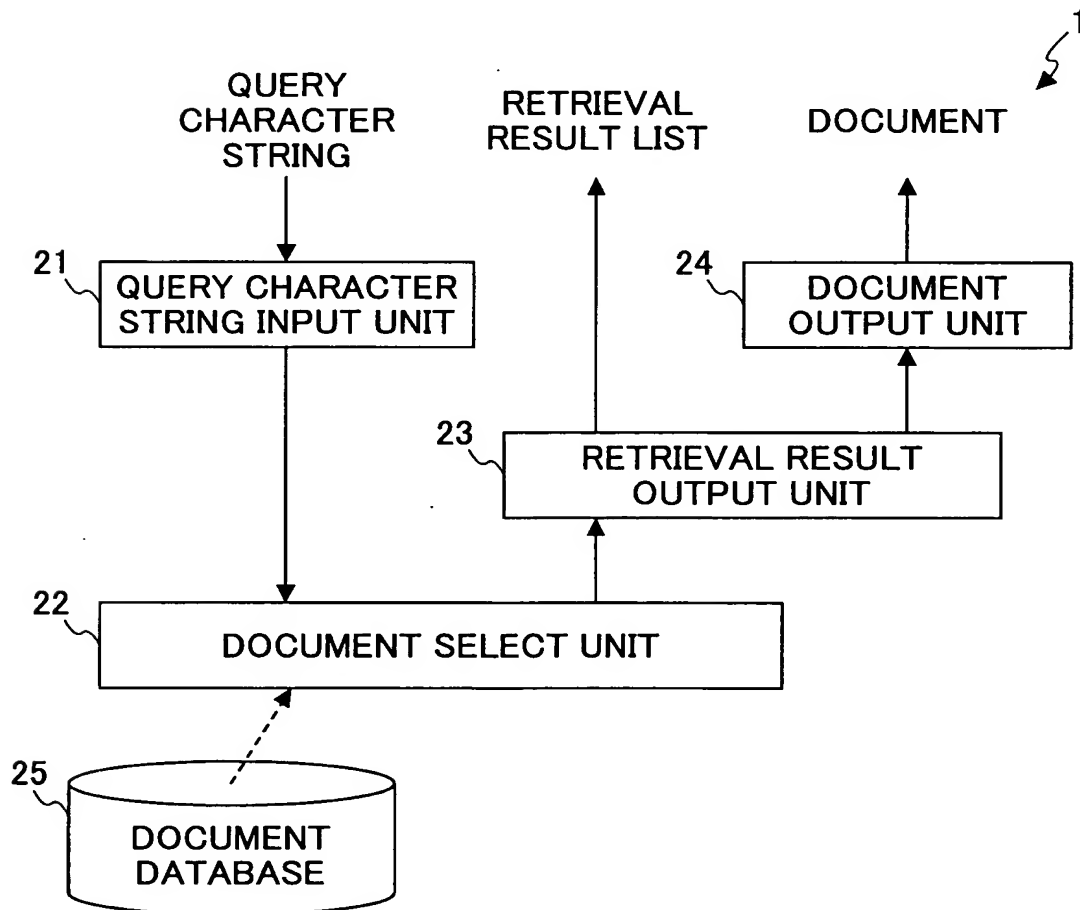


FIG.4

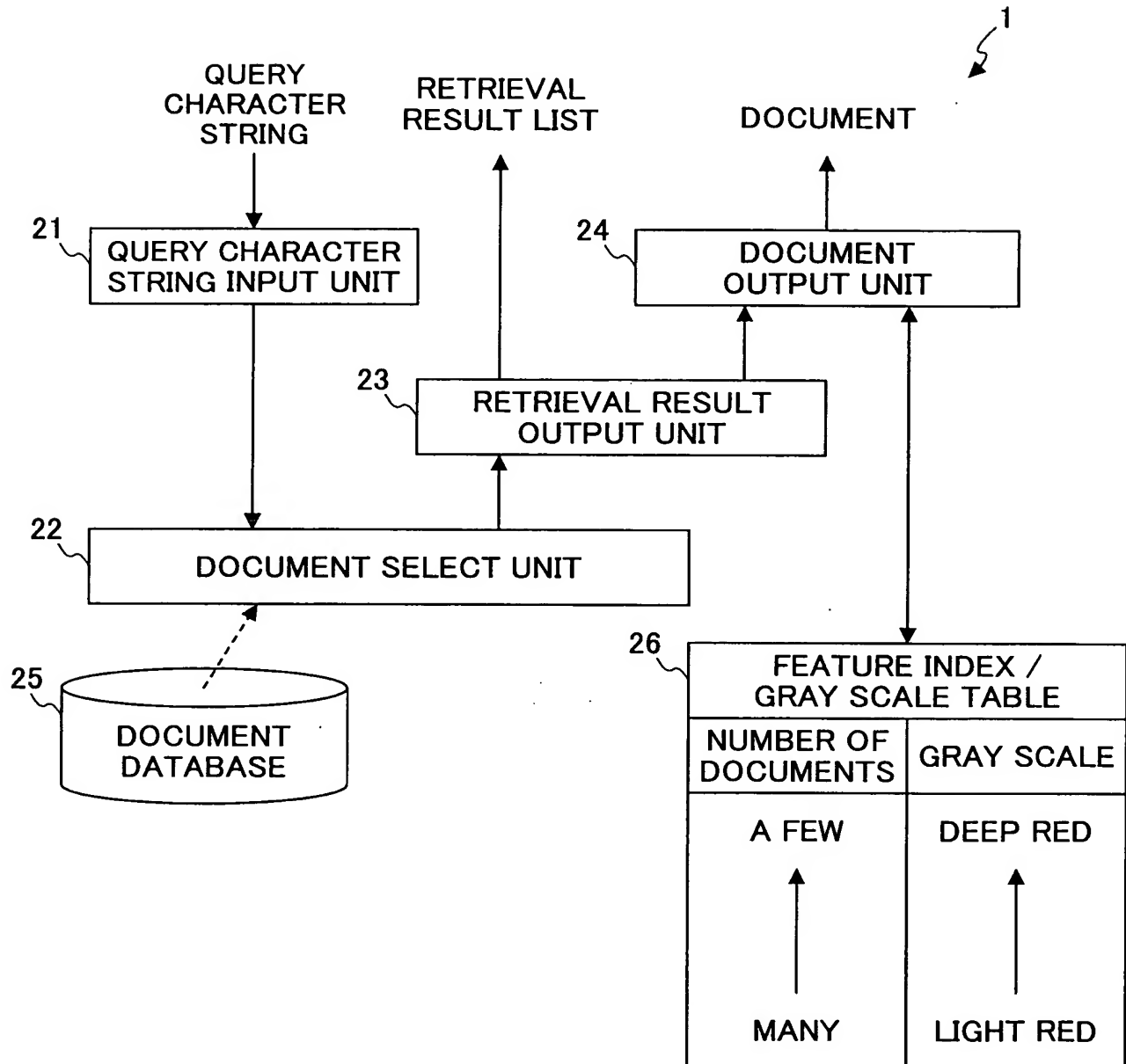


FIG.5

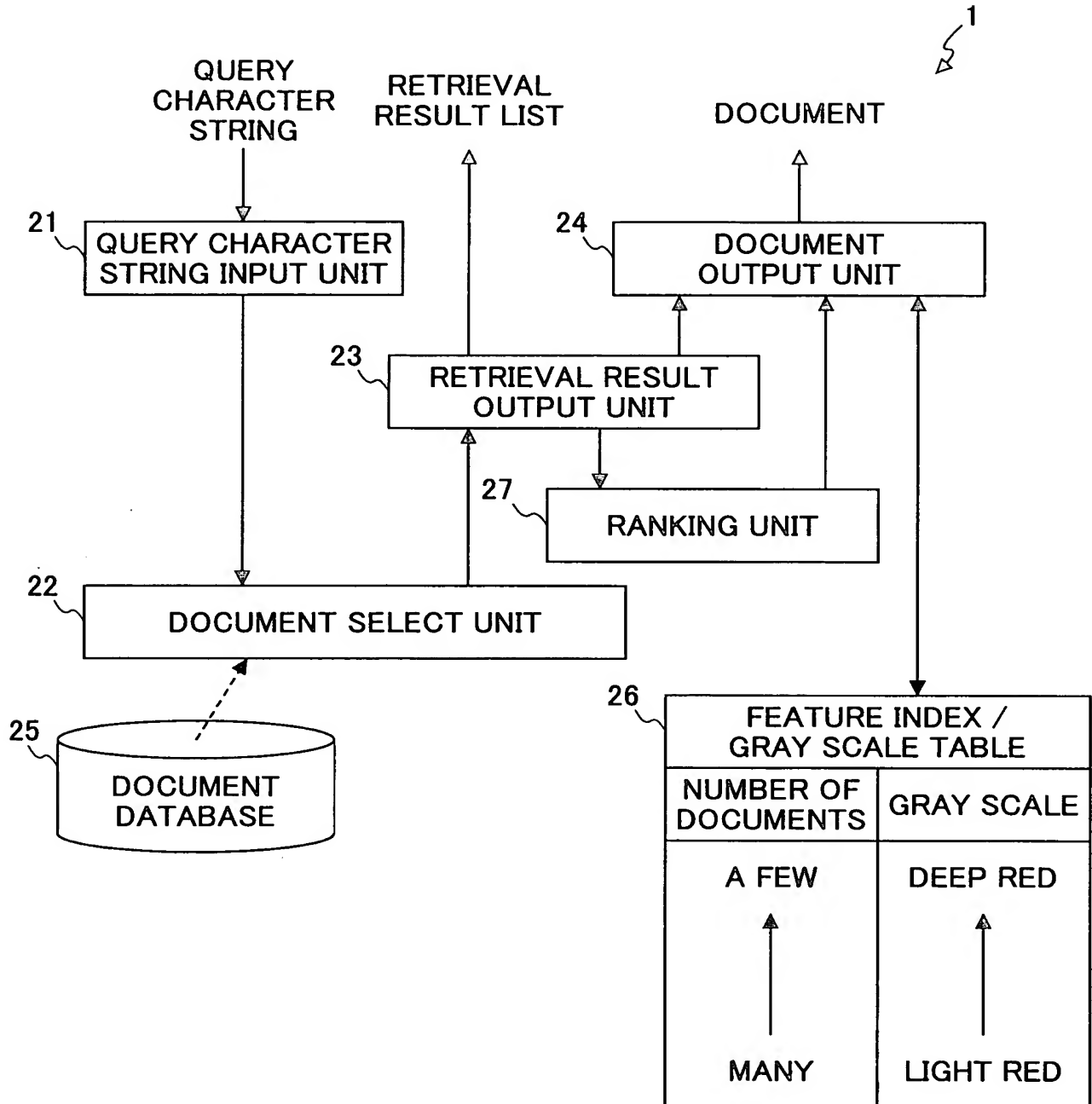


FIG.6

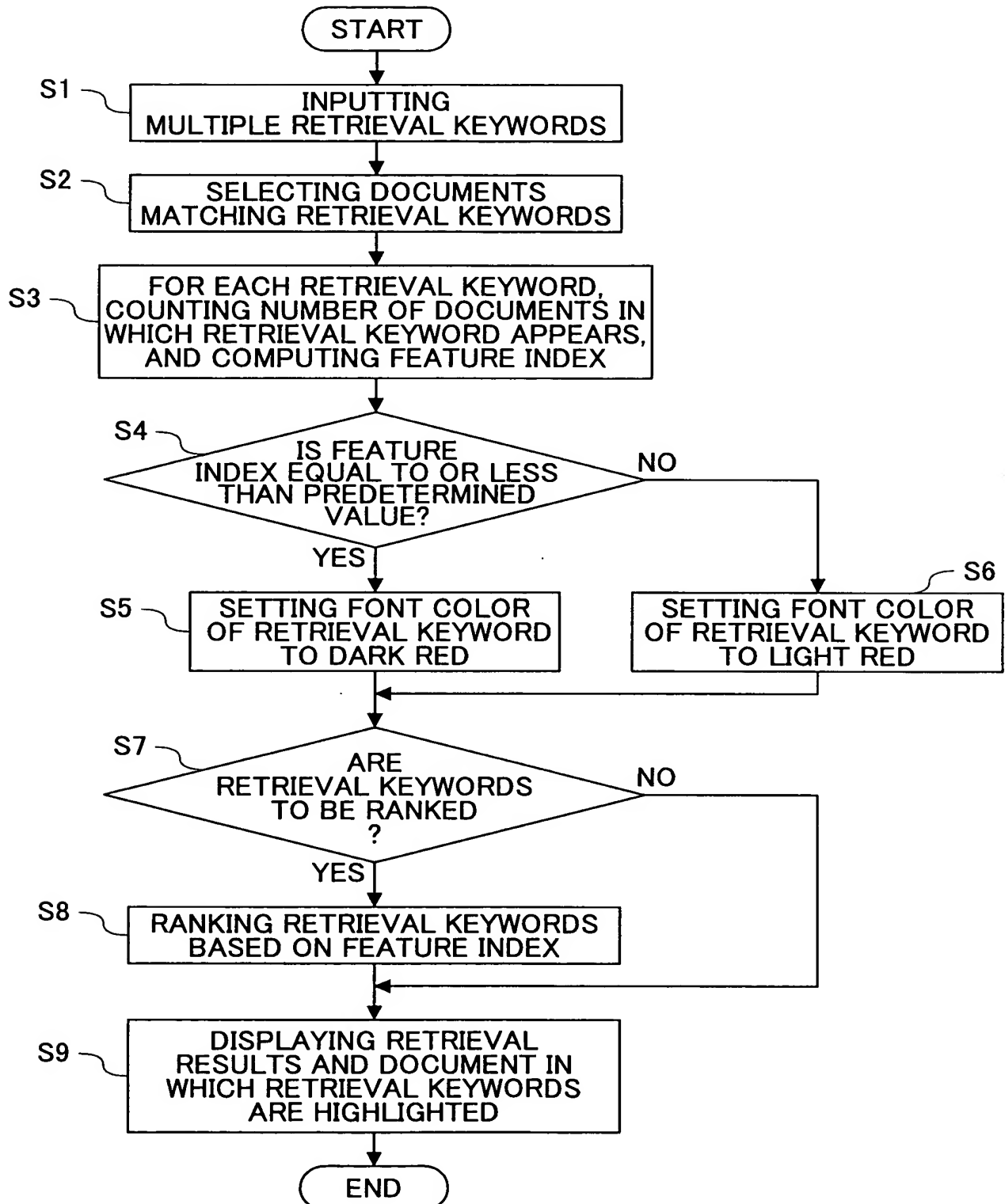


FIG. 7

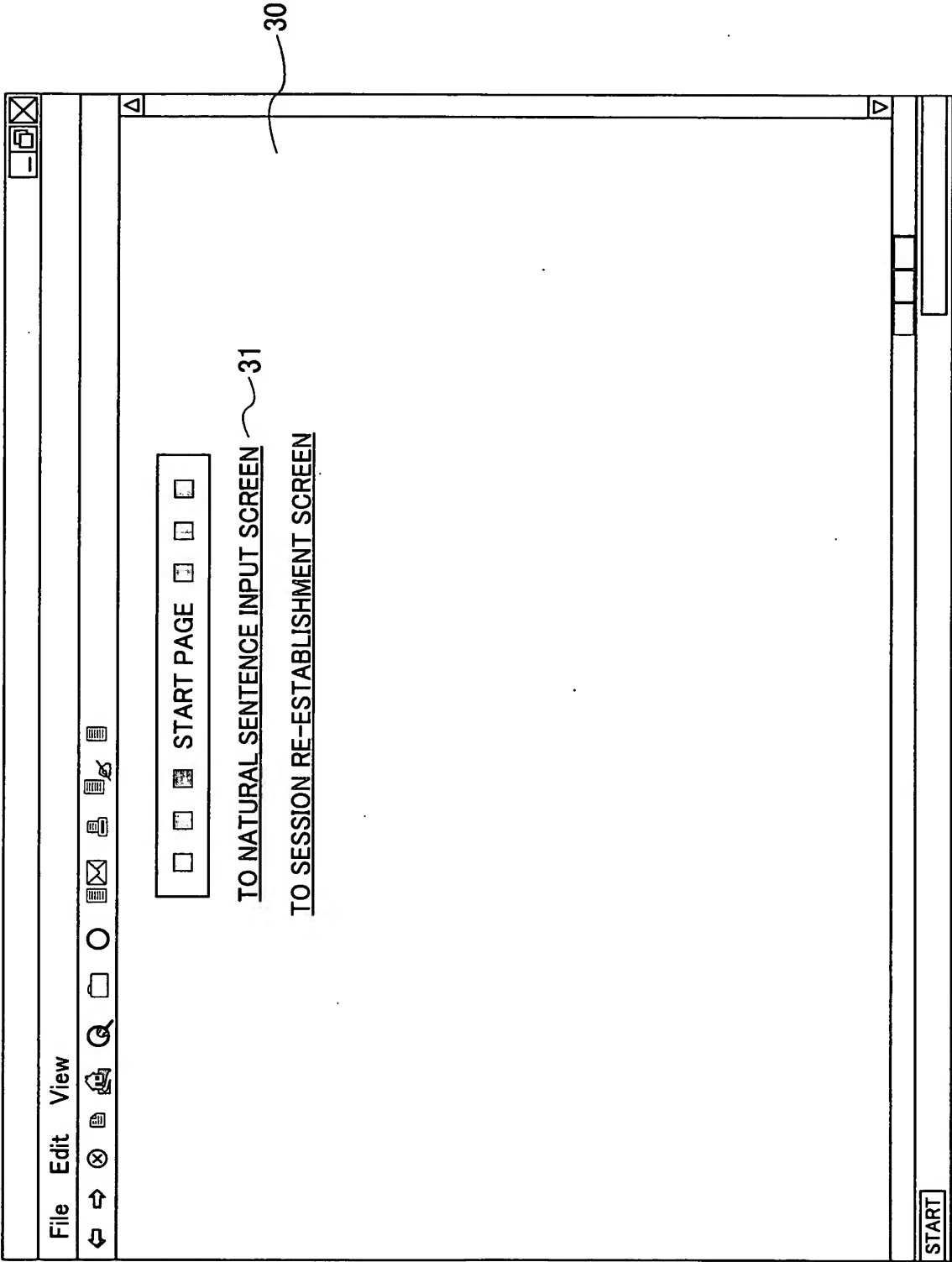


FIG.8

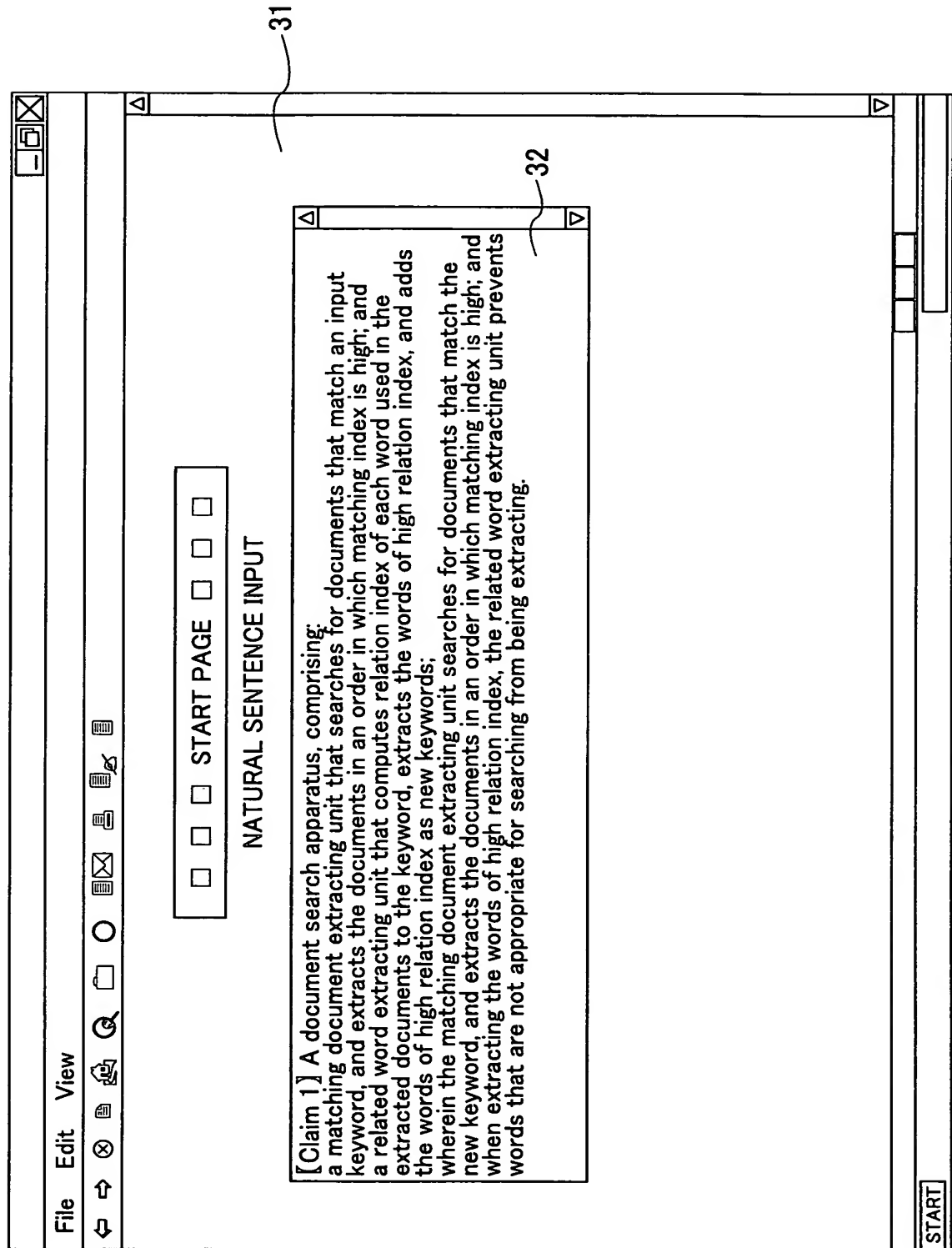


FIG.9

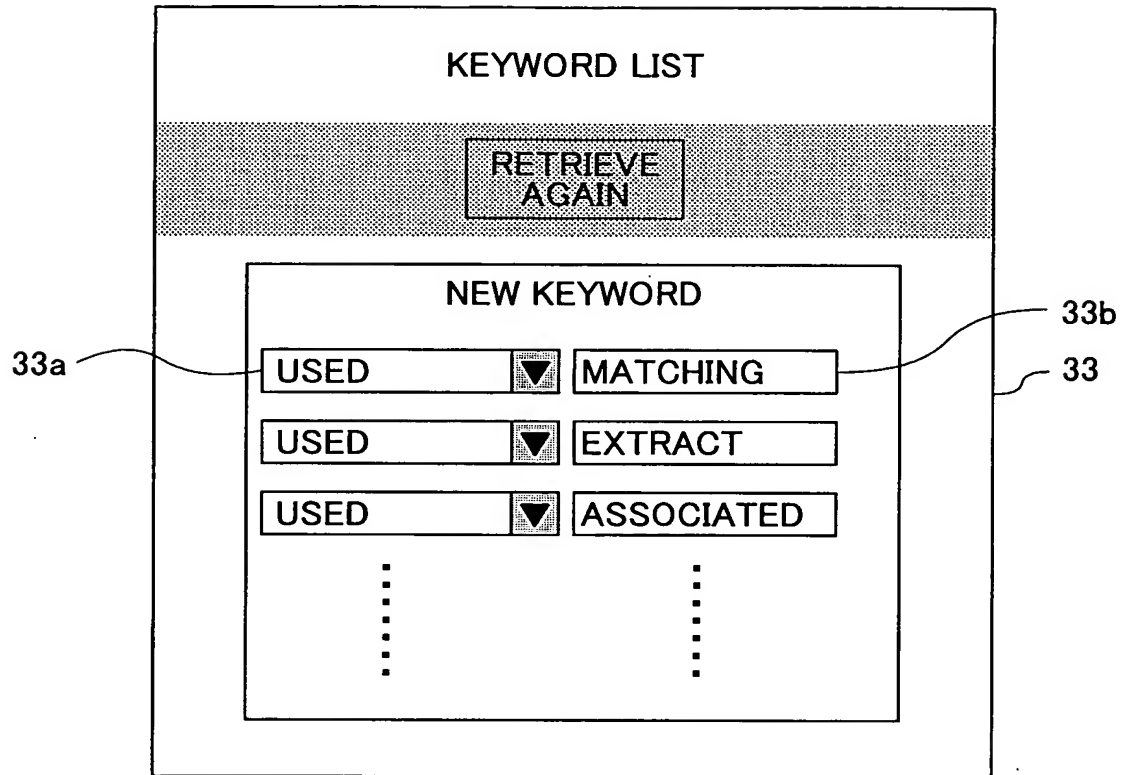


FIG.10

40

File Edit View

DOCUMENT RANKING

KEYWORD LIST

1 ☐ DOCUMENT SEARCH APPARATUS, METH
☒ NO. 2002-117043 APPLICANT: RIC
[BIBLIOGRAPHY ABSTRACT CLAIMS DETAIL]

2 ☐ RELATED WORD SELECTION APPARATUS
☒ NO. 2002-140366 APPLICANT: RIC
[BIBLIOGRAPHY ABSTRACT CLAIMS DETAIL]

3 ☐ DOCUMENT SEARCH APPARATUS, METH
☒ NO. 2002-140365 APPLICANT: RIC
[BIBLIOGRAPHY ABSTRACT CLAIMS DETAIL]

4 ☐ DOCUMENT SEARCH APPARATUS, METH
☒ NO. 2002-288215 APPLICANT: RIC
[BIBLIOGRAPHY ABSTRACT CLAIMS DETAIL]

5 ☐ DOCUMENT SEARCH APPARATUS
☒ NO. 2001-134588 APPLICANT: RIC
[BIBLIOGRAPHY ABSTRACT CLAIMS DETAIL]

6 ☐ DOCUMENT SEARCH APPARATUS AND M
☒ NO. 2002-189784 APPLICANT: RIC
[BIBLIOGRAPHY ABSTRACT CLAIMS DETAIL]

7 ☐ DOCUMENT SEARCH APPARATUS, METH
☒ NO. 2002-259386 APPLICANT: RIC
[BIBLIOGRAPHY ABSTRACT CLAIMS DETAIL]

KEYWORD

SEARCH KEYWORD: MATCHING (23), EXTRACT (64), RELATED (193),
SEARCHING (361), DOCUMENT (1856), APPARATUS (3809),
KEYWORD (3349), WORD (6584), MEANS (21175), SEARCH (55422)

INPUT NATURAL SENTENCE

【Claim 1】 A document search apparatus, comprising:
a matching document extracting unit that searches for
documents that match an input keyword and extracts the

(19) JAPANESE PATENT OFFICE (JP)
(12) LAID-OPEN PATENT APPLICATION (A)
(11) Publication number: 2002-117043 (P2002-117043A)
(43) Date of publication of application: 19.4.2002
(54) Title of the Invention: Document search apparatus,
method of searching documents, and recording medium
storing a computer program for performing the method
(51) International classification
G06F 17/30 210
170
320
350
12/00 51C
[F1]
G06F 17/30 210 A
170A
320D
350C
12/00 310A
[Request for examination]

41

42

43

START

FIG.11

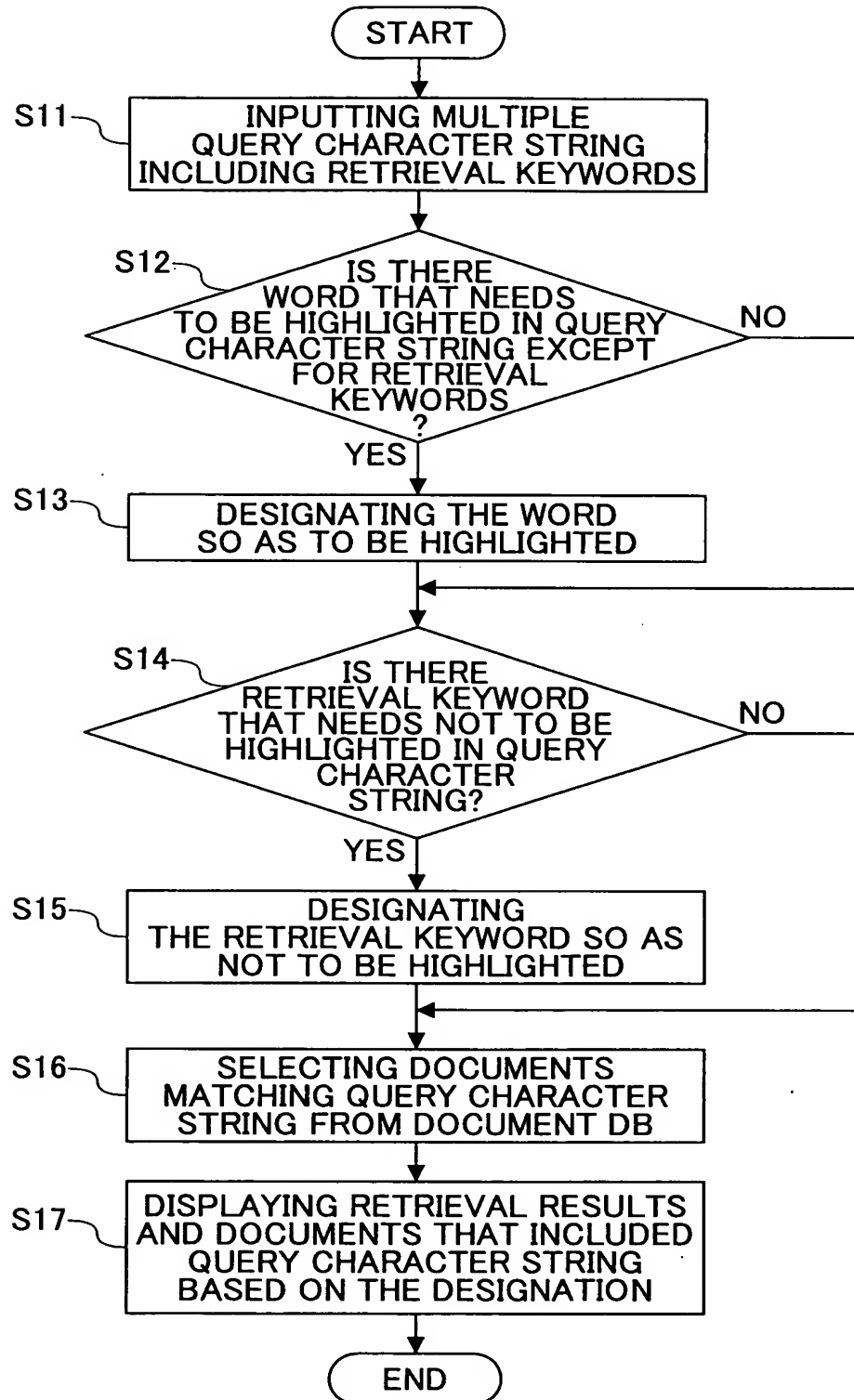


FIG.12

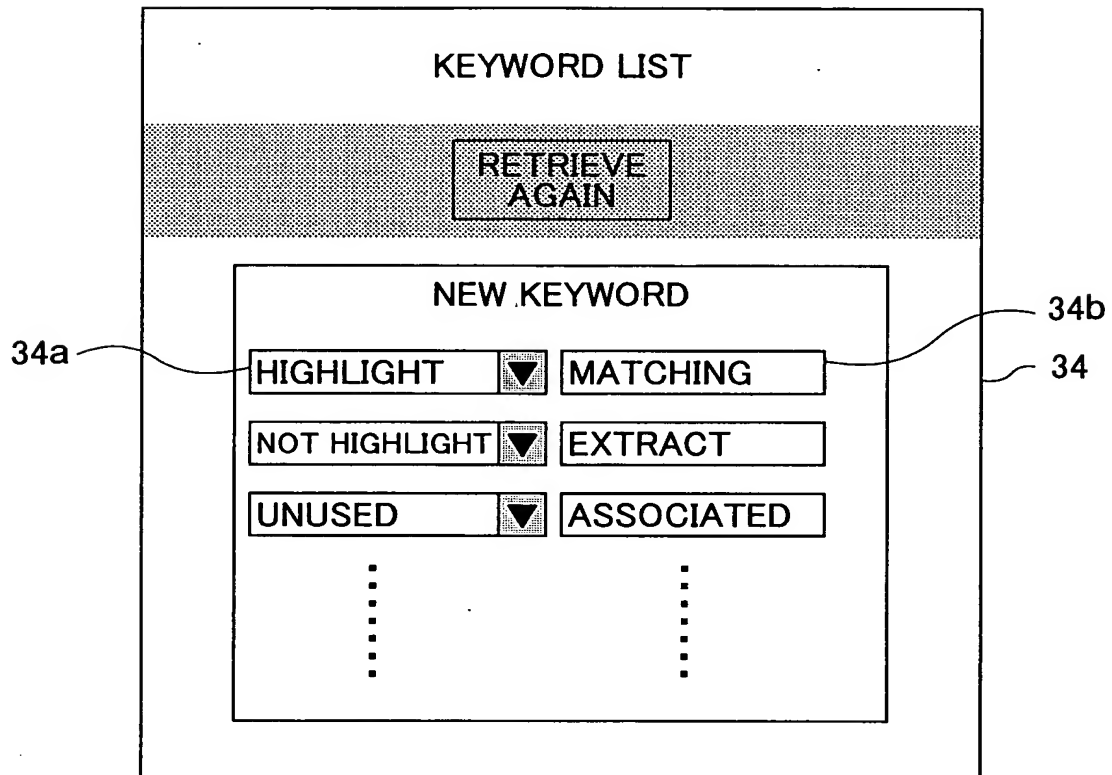


FIG.13

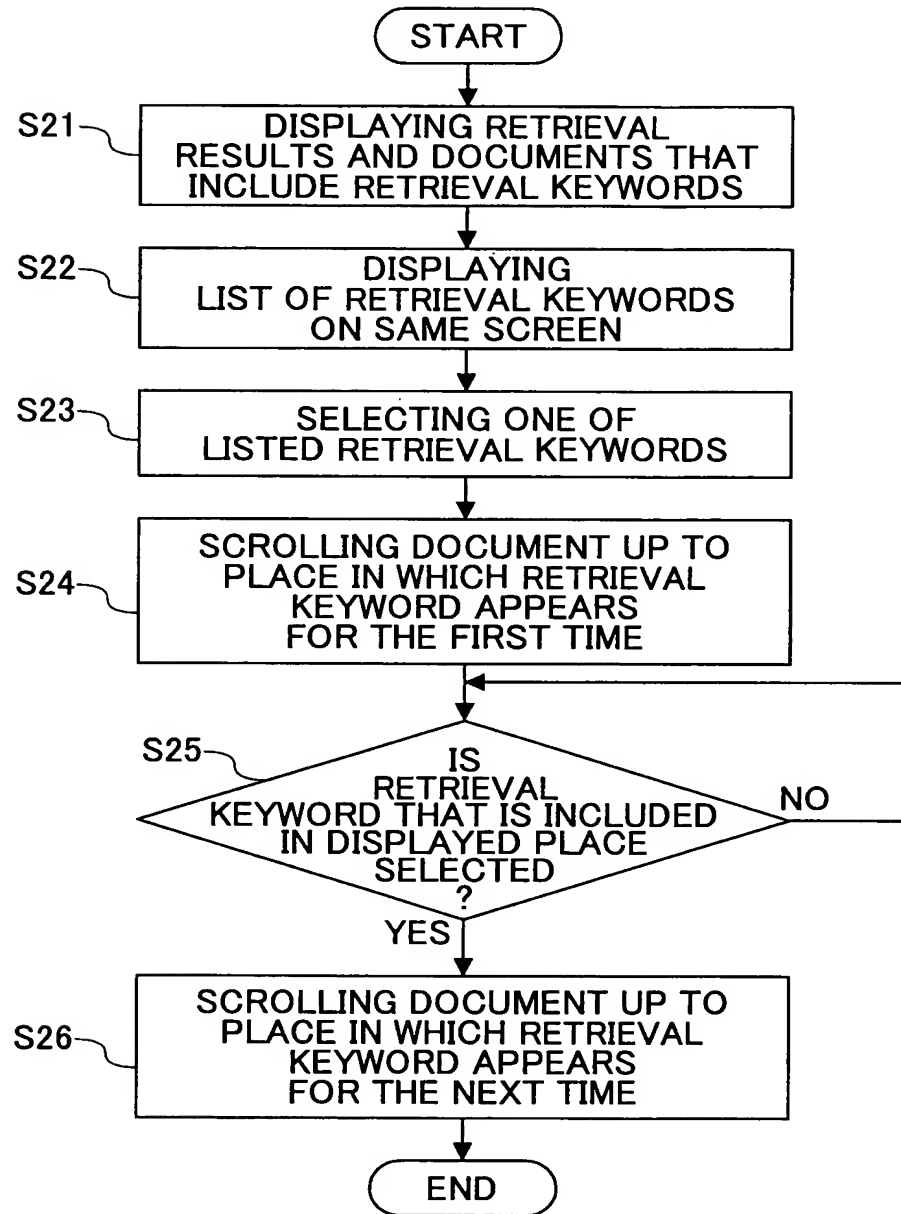


FIG.14

42a 40

File Edit View

DOCUMENT RANKING

KEYWORD LIST

1 DOCUMENT SEARCH APPARATUS, METH
[] NO. 2002-117043 APPLICANT: RIC
[BIBLIOGRAPHY ABSTRACT CLAIMS DETAIL]

2 RELATED WORD SELECTION APPARATUS
[] NO. 2002-140366 APPLICANT: RIC
[BIBLIOGRAPHY ABSTRACT CLAIMS DETAIL]

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[BIBLIOGRAPHY ABSTRACT CLAIMS DETAIL]

6 DOCUMENT SEARCH APPARATUS AND M
[] NO. 2002-189764 APPLICANT: RIC
[BIBLIOGRAPHY ABSTRACT CLAIMS DETAIL]

7 DOCUMENT SEARCH APPARATUS, METH
[] NO. 2002-259386 APPLICANT: RIC
[BIBLIOGRAPHY ABSTRACT CLAIMS DETAIL]

8 DOCUMENT RETRIEVAL APPARATUS, METH
[] NO. 2002-259386 APPLICANT: RIC
[BIBLIOGRAPHY ABSTRACT CLAIMS DETAIL]

START

KEYWORD

SEARCH KEYWORD: MATCHING (23), EXTRACT (64), RELATED (193),
SEARCHING (361), DOCUMENT (1856), APPARATUS (3809),
KEYWORD (3349), WORD (6584), MEANS (21175), SEARCH (55422)

INPUT NATURAL SENTENCE

【Claim 1】 A document search apparatus, comprising:
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(12) LAID-OPEN PATENT APPLICATION (A)
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storing a computer program for performing the method
(51) International classification
G06F 17/30 210
170
320
350
12/00 51C
[F]
G06F 17/30 210 A
170A
320D
350C
12/00 310A
[Request for examination]

41

41a

42

43

FIG.15

40

File Edit View

DOCUMENT RANKING

KEYWORD LIST

41b

41

42

43

SEARCH KEYWORD: MATCHING (23), EXTRACT (64), RELATED (193), SEARCHING (361), DOCUMENT (1856), APPARATUS (3809), KEYWORD (3349), WORD (6584), MEANS (21175), SEARCH (55422)

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G06F 17/30 210
170
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12/00 51C
[F1]
G06F 17/30 210 A
170A
320D
350C
12/00 310A
[Request for examination]

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[] NO. 2002-117043 APPLICANT: RIC
[BIBLIOGRAPHY ABSTRACT CLAIMS DETAIL]

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[BIBLIOGRAPHY ABSTRACT CLAIMS DETAIL]

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[] NO. 2002-140365 APPLICANT: RIC
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[] NO. 2002-189764 APPLICANT: RIC
[BIBLIOGRAPHY ABSTRACT CLAIMS DETAIL]

7 DOCUMENT SEARCH APPARATUS, METH
[] NO. 2002-259386 APPLICANT: RIC
[BIBLIOGRAPHY ABSTRACT CLAIMS DETAIL]

8 DOCUMENT SEARCH APPARATUS, METH
[] NO. 2002-259386 APPLICANT: RIC
[BIBLIOGRAPHY ABSTRACT CLAIMS DETAIL]

START

FIG.16

File Edit View

☐ ☐ ☐

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KEYWORDS USED FOR RETRIEVAL

<input checked="" type="checkbox"/> MATCHING	23
<input checked="" type="checkbox"/> EXTRACT	64
<input checked="" type="checkbox"/> RELATED	193
<input checked="" type="checkbox"/> SEARCHING	361
<input checked="" type="checkbox"/> DOCUMENT	1856
<input checked="" type="checkbox"/> APPARATUS	3809
<input checked="" type="checkbox"/> KEYWORD	3349
<input checked="" type="checkbox"/> WORD	6584
<input checked="" type="checkbox"/> MEANS	21175
<input checked="" type="checkbox"/> SEARCH	55422

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RELATED WORDS

<input type="checkbox"/> INDEX	2143
<input type="checkbox"/> RANKING	4662
<input type="checkbox"/> STATISTICS	7265
<input type="checkbox"/> APPEAR	8400
<input type="checkbox"/> WEIGHT	16049
<input type="checkbox"/> FREQUENCY	17949
<input type="checkbox"/> SET	33591
<input type="checkbox"/> ADD	40014
<input type="checkbox"/> USER	77195
<input type="checkbox"/> CALCULATE	89437

53

NEW KEYWORDS

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<input type="checkbox"/> <input type="button" value="UNUSED"/>
<input type="checkbox"/> <input type="button" value="UNUSED"/>

54

INPUT NATURAL SENTENCE

【Claim 1】 A document search apparatus, comprising: a matching unit that searches for documents that match an input keyword, and extracts the documents in an order in which matching index is high; and a related word extracting unit that computes relation index of each word used in the extracted documents to the keyword, extracts the words of high relation index, and adds the words of high relation index as new keywords; wherein the matching document extracting unit searches

RETURN

RETRIEVE AGAIN

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